

OMEGA PRODUCTS PRIVATE LIMITED

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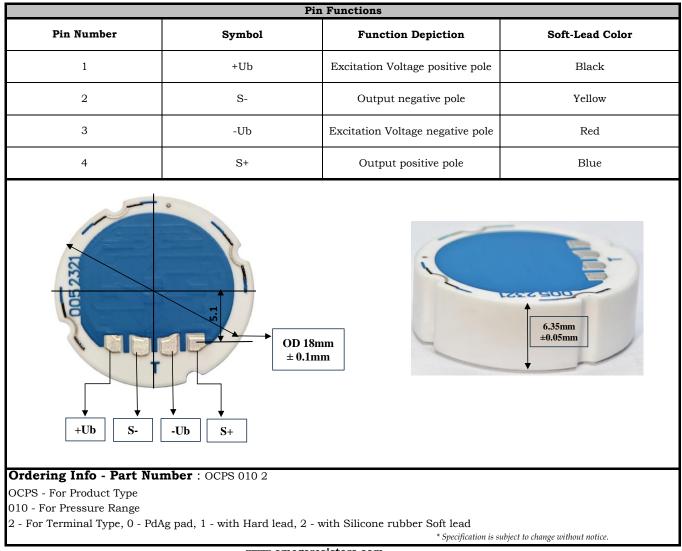
Thick Film Ceramic Pressure Sensor Element (OCPS)

DESCRIPTION

Thick Film Ceramic Pressure Sensor Element (OCPS) features advanced ceramic integration technology, compact design, corrosion resistance, no isolation for direct contact with messuring corrosive media, and easy integration with transmitter circuits. It is highly reliable, stable and cost-effective, supporting over 1 Million pressure cycles under rated conditions. The product complies with EU RoHS standards.

APPLICATION		
Automotive air conditioning	Brake system	
Fork lift	Air compressor	ANGLE ISP
Tire pressure		
Water pressure/level test		
SPECIFICATION		

Туре	Pressure R	lange (Bar)	Overload Pressure (Bar)	Destruction Pressure (Bar)		
OCPS005	0	5	10	12		
OCPS010	0	10	20	25		
OCPS016	0	16	32	40		
OCPS020	0	20	40	50		
OCPS025	0	25	50	63		
OCPS030		30	60	75		
OCPS050	0	50	100	125		
PERFORMANCE CHAR	ACTERISTIC		Requiremen	t shall not exceed		
Bridge resistance		10K ohms ±30%				
Operating Temperature Range		-10°C ~ 85°C (-40°C ~150°C optional)				
Power Supply		4 ~ 30 VDC				
Overload Pressure		2 Times full-scale pressure				
Supply Voltage			$\leq 5 \sim 4 \text{ mV/V}$			
Insulating Resistor			 >1G ohms (Test conditions: 25°C, relative humidity 75% 500VDC) 			
Storage Temperature Range			-40°C ~ 150°C (Without leadout terminal)			
Nonlinearity		Typical: ±0.2, Max: ±0.5, Unit: %FS				
Repeatability			Typical: ±0.1, Max: ±0.5, Unit: %FS			
Hysteresis			Typical: ±0.2, Max: ±0.5, Unit: %FS			
Offset			Min: -0.15, Max: 0.1 , Unit: mV/VDC			
Sensitivity			Min: 2, Typical: 3, Unit: mV/VDC			
Offset long-time stability	Typical: ±0.25, Max: ±0.3, Unit: %FS/year @20°C					
· ·		Structu	ral Characteristics	-		
	Class A ≤±0.02 (0°C ~ 70°C)					
Temperature Drift*	Class B ≤±0.05 (-10°C ~ 85°C)			Unit: %FS/Year @20°C		
	Class C ≤±0.1 (-10°C ~ 85°C) **					
For products with temperat	ure compensation	n				
*For products without tempe	rature compensa					
		Structu	ral Characteristics			
Contact Material	Al ₂ O ₃ -96%					
Weight	Approx 6g					
Pin Type and Material	No lead PdAg pad					
	Hard leads					
	Soft leads Silicone rubber lead (customized)					
Sealing ring	Recommendation: silicone or butyrofoam rubber or fluoroelastomer (depending on the use environment)					



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